High Purity- Electronics Grade PTFE
PTFE Membrane Cartridges for High Purity Process Fluids in Microelectronics Applications

PTFE Electronics Grade filter cartridges provide superior chemical resistance for high-purity microelectronics applications requiring contaminant removal to 0.01 µm. The EPTFE Series offers consistent removal of contaminants from aggressive fluids and organic solvents. In air and gas applications, the single-layer PTFE membrane, delivers superior hydrophobicity to polypropylene or PVDF; offering the best option to prevent water retention, flow blockage and microbial growth. The extend-area option offers up to 40% more surface area. This additional area results in significant increases in flow rate and loading capacity in the same footprint.

Flow Rate vs Pressure Drop

Ultra-Pure Water Rinse
Each cartridge receives an extended rinse with 18 mega-ohm UPW to ensure ultra-low levels of extractable substances and a quick rinse-up at the point of installation.

Typical Applications
- Solvent filtration
- Etching bath solutions
- High purity rinse water
- Photochemical solutions
- Bulk chemical delivery
- Ultrapure electronics - grade gases

Construction Materials
Membrane.................................................PTFE
Support Layers.................................Polypropylene
Cage/Core/Adapters..............................Polypropylene
Seals.................................................Buna, EPDM, Silicone, Viton®, FFKM, Teflon® Encapsulated Viton®

Cartridges are available with wet-pack option (60/40 IPA/DI water solution) to eliminate the need to wet-out in the environment.

Integrity
Cartridges are 100% integrity tested at the point of manufacture to ensure quality standards and retention performance.

Dimensions
Length: 10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter: 2.70 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions
Temperature.................................176°F (80°C)
Forward...............................50 PSI (3.4 bar) at 68°F (20°C)
7 PSI (0.5 bar) at 176°F (80°C)
Reverse..............................40 PSI (2.7 bar) at 68°F (20°C)
7 PSI (0.5 bar) at 176°F (80°C)

Ordering Information

<table>
<thead>
<tr>
<th>EPTFE</th>
<th>Rating (µm)</th>
<th>A</th>
<th>Length, Nominal</th>
<th>C</th>
<th>End Cap Style</th>
<th>O-Rings/Gaskets</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPTFEX</td>
<td>0.01 / 10 nm</td>
<td>10&quot;</td>
<td>(25.4 cm)</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B = Buna-N</td>
<td>I = Stainless Steel Insert</td>
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<tr>
<td>0.02 / 20 nm</td>
<td>20&quot;</td>
<td>(50.8 cm)</td>
<td>3</td>
<td>222 w/ Fin</td>
<td>E = EPDM</td>
<td>W = Wet-Packed</td>
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<tr>
<td>0.03 / 30 nm</td>
<td>30&quot;</td>
<td>(76.2 cm)</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>S = Silicone</td>
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<tr>
<td>0.05</td>
<td>40&quot; (101.6 cm)</td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td></td>
<td></td>
<td>V = Viton®</td>
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</tr>
<tr>
<td>0.1</td>
<td>7 = 226 w/ Fin</td>
<td></td>
<td>T = Teflon® Encapsulated Viton®</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td></td>
<td></td>
<td>Z = Teflon® Encapsulated Silicone</td>
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<td></td>
<td>F = FFKM</td>
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</tbody>
</table>

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required.